

Historic, Archive Document

Do not assume content reflects current scientific
knowledge, policies, or practices

LIBRARY RECEIVED JUL 5 1923 United States Department of Agriculture, BUREAU OF PLANT INDUSTRY.

SERVICE AND REGULATORY ANNOUNCEMENT.

APRIL, 1923.

THE ADULTERATION AND MISBRANDING OF THE SEEDS OF REDTOP.

During the calendar year 1922 seed of redtop was procured in the open market in accordance with the following paragraph in the act of Congress making appropriations for the Department of Agriculture:

"Where such samples [seeds of grasses, clover, or alfalfa and lawn-grass seeds secured in the open market] are found to be adulterated or misbranded, the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale."

In carrying out the provisions of this act, 521 mail samples and 326 purchased lots of seed in bulk were obtained.

These were examined in the seed-testing laboratory of the Bureau of Plant Industry, and publication is here made of the results of the analyses of the samples found to be adulterated or misbranded, together with the names of the seedsmen by whom they were sold or offered for sale. (Table 1.)

Seed purchased from 41 firms was found to be adulterated or misbranded. In all cases timothy seed was the principal adulterant found.

TABLE 1.—Results of tests of samples of seed obtained in the open market as redtop seed and found to be adulterated or misbranded.

| Seed offered for sale or sold as redtop seed by— | | Seed obtained by— | Seeds and inert matter found upon analysis of samples. | | | |
|--|--|--------------------|--|---------------|--------------|-----------------|
| Name of dealer. | Address of dealer. | | Redtop seed. | Timothy seed. | Other seeds. | Dirt and chaff. |
| | | | Per cent. | Per cent. | Per cent. | Per cent. |
| Adams Seed Co., T. Lee. | 417 Walnut Street, Kansas City, Mo. | Mail (sample)... | 68.56 | 13.05 | 4.85 | 13.54 |
| Do. | do. | Purchase (bulk)... | 75.72 | 10.60 | 3.03 | 10.65 |
| Adams & Son. | Fayetteville, Ark. | Mail (sample)... | 26.89 | 10.75 | 11.98 | 50.38 |
| Do. | do. | Purchase (bulk)... | 34.85 | 7.45 | 9.54 | 48.16 |
| Archias' Seed Store Corporation. | 106-108 East Main Street, Sedalia, Mo. | do. | 58.73 | 21.99 | 3.09 | 16.19 |
| Berry Seed Co., A. A. | Clarinda, Iowa. | Mail (sample)... | 83.62 | 6.37 | 2.24 | 7.77 |
| Do. | do. | Purchase (bulk)... | 63.96 | 5.99 | 2.45 | 27.60 |
| Brent Seed Co., The C. S. | Lexington, Ky. | Mail (sample)... | 60.54 | 10.85 | 6.55 | 22.06 |
| Do. | do. | Purchase (bulk)... | 58.63 | 11.38 | 6.65 | 23.34 |
| Bushnell & Co., D. I. | 105-111 North Second Street, St. Louis, Mo. | Mail (sample)... | 59.03 | 25.10 | 2.56 | 13.31 |
| Do. | do. | do. | 78.55 | 11.01 | .83 | 9.55 |
| Do. | do. | Purchase (bulk)... | 62.30 | 21.24 | 2.88 | 13.58 |
| Champaign Seed Co. | Champaign, Ill. | do. | 40.00 | 6.54 | 2.32 | 51.14 |
| Conklin & Son, E. W. | 28-48 Montgomery Street, Binghamton, N. Y. | Mail (sample)... | 72.08 | 7.97 | 4.17 | 15.78 |
| Do. | do. | Purchase (bulk)... | 79.46 | 6.27 | 2.79 | 11.48 |
| Denison Seed Co. | Denison, Iowa. | Mail (sample)... | 81.35 | 7.17 | 1.35 | 10.13 |
| Do. | do. | Purchase (bulk)... | 84.24 | 5.25 | 1.20 | 9.31 |
| Eller, T. O. | Glenwood, Iowa. | do. | 57.15 | 24.22 | 4.59 | 14.04 |
| Farmer Seed and Nursery Co. | Faribault, Minn. | do. | 88.25 | 5.11 | .19 | 6.45 |
| Fitzgerald-Litchford Co. | Nashville, Tenn. | Mail (sample)... | 64.46 | 12.29 | 5.01 | 18.24 |
| Do. | do. | do. | 71.72 | 17.34 | .85 | 10.09 |
| Do. | do. | Purchase (bulk)... | 71.23 | 19.88 | .33 | 8.56 |
| Funk, J. J. | Fremont, Nebr. | Mail (sample)... | 72.37 | 21.38 | .29 | 5.96 |
| Do. | do. | Purchase (bulk)... | 85.85 | 6.27 | .28 | 7.60 |
| Griswold Seed & Nursery Co. | Lincoln, Nebr. | do. | 81.34 | 10.70 | .19 | 7.77 |
| Guthrie-Lorenz Co. | 421-423 West Seventh Street, Des Moines, Iowa. | Mail (sample)... | 55.24 | 14.47 | 16.14 | 14.15 |
| Do. | do. | Purchase (bulk)... | 60.36 | 15.99 | 8.70 | 14.95 |

TABLE 1.—Results of tests of samples of seed obtained in the open market as redtop seed and found to be adulterated or misbranded—Continued.

| Seed offered for sale or sold as redtop seed by— | | Seed obtained by— | Seeds and inert matter found upon analysis of samples. | | | |
|--|--|--------------------|--|------------------|------------------|------------------|
| Name of dealer. | Address of dealer. | | Redtop seed. | Timothy seed. | Other seeds. | Dirt and chaff. |
| | | | <i>Per cent.</i> | <i>Per cent.</i> | <i>Per cent.</i> | <i>Per cent.</i> |
| Haile & Sons, J. C.... | 215 Walnut Street, Cincinnati, Ohio. | Mail (sample)... | 69.02 | 9.98 | 4.16 | 16.84 |
| Do..... | do..... | Purchase (bulk)... | 67.89 | 9.92 | 4.34 | 17.85 |
| Hardin, Hamilton & Lewman. | 831 West Main Street, Louisville, Ky. | Mail (sample)... | 81.89 | 5.02 | 1.15 | 11.94 |
| Do..... | do..... | Purchase (bulk)... | 55.84 | 18.27 | 4.74 | 21.15 |
| Do..... | do..... | Mail (sample)... | 70.18 | 12.66 | 2.87 | 14.29 |
| Do..... | do..... | Purchase (bulk)... | 72.04 | 13.02 | 2.38 | 12.56 |
| Hart Seed Co., Charles C. | Wethersfield, Conn. | do..... | 78.78 | 8.70 | 3.15 | 9.37 |
| Hill Hardware Co.... | 938 State Street, Bowling Green, Ky. | Mail (sample)... | 73.22 | 14.47 | 1.13 | 11.18 |
| Do..... | do..... | Purchase (bulk)... | 72.41 | 14.26 | .74 | 12.59 |
| Hitchcock & Son (Inc.), L. H. | 124-128 Second Avenue N. (Market Street), Nashville, Tenn. | Mail (sample)... | 70.55 | 19.76 | .28 | 9.41 |
| Do..... | do..... | Purchase (bulk)... | 64.82 | 27.15 | .19 | 7.84 |
| Johnson, J..... | 163 Broadway, Bayonne, N. J. | do..... | 45.95 | 7.23 | 7.22 | 39.60 |
| Kiester-Hall Seed Co. | 400-402 West Park Avenue, Waterloo, Iowa. | do..... | 61.78 | 11.87 | 9.08 | 17.27 |
| Lanning Seed Co.... | 148 South Maple Street, Nowata, Okla. | Mail (sample)... | 55.06 | 21.76 | 4.35 | 18.83 |
| Do..... | do..... | Purchase (bulk)... | 78.19 | 5.45 | 2.31 | 14.05 |
| Louisville Seed Co... | Louisville, Ky..... | Mail (sample)... | 63.94 | 22.39 | 2.25 | 11.42 |
| Do..... | do..... | Purchase (bulk)... | 62.24 | 25.21 | 1.92 | 10.63 |
| McKay-Reece Co.... | 148-150 Second Avenue N., Nashville, Tenn. | Mail (sample)... | 78.29 | 6.40 | 2.69 | 12.62 |
| Do..... | do..... | Purchase (bulk)... | 77.88 | 7.43 | 2.51 | 12.18 |
| McVay, jr., George B. | Birmingham, Ala.... | Mail (sample)... | 47.70 | 21.32 | 12.14 | 18.84 |
| Do..... | do..... | Purchase (bulk)... | 48.23 | 21.41 | 11.40 | 18.96 |
| Manthey's Seed Store. | 208 East Fourth Street, Cincinnati, Ohio. | do..... | 73.55 | 6.07 | 4.27 | 16.11 |
| Mitchelhill Seed Co. | 221-223 South Second Street, St. Joseph, Mo. | do..... | 80.80 | 9.26 | .87 | 9.07 |
| National Seed Co.... | 101 West Main Street, Louisville, Ky. | Mail (sample)... | 34.10 | 26.45 | 13.00 | 26.45 |
| Do..... | do..... | Purchase (bulk)... | 33.71 | 28.03 | 11.65 | 26.61 |
| Peters Seed Co..... | 119 East Court Street, Cincinnati, Ohio. | Mail (sample)... | 70.61 | 9.21 | 4.95 | 15.23 |
| Do..... | do..... | Purchase (bulk)... | 71.05 | 8.13 | 4.07 | 16.75 |
| Purcell Seed Co.... | Evansville, Ind..... | do..... | 78.82 | 6.82 | .68 | 13.68 |
| Radwaner Seed Co., I. L. | 83 Water Street, New York, N. Y. | Mail (sample)... | 22.62 | 10.39 | 8.15 | 58.84 |
| Do..... | do..... | Purchase (bulk)... | 20.55 | 15.20 | 10.14 | 54.11 |
| Rudy-Patrick Seed Co. | Ninth and Santa Fe Streets, Kansas City, Mo. | Mail (sample)... | 49.01 | 17.88 | 7.54 | 25.57 |
| Do..... | do..... | do..... | 58.37 | 20.19 | 3.45 | 17.99 |
| Do..... | do..... | do..... | 79.73 | 6.37 | 2.13 | 11.77 |
| Do..... | do..... | Purchase (bulk)... | 59.80 | 18.43 | 2.63 | 19.14 |
| Russell-Heckle Seed Co. | 24 South Front Street, Memphis, Tenn. | Mail (sample)... | 73.61 | 8.45 | 4.35 | 13.59 |
| Do..... | do..... | do..... | 75.47 | 8.80 | 3.73 | 12.00 |
| Do..... | do..... | Purchase (bulk)... | 62.74 | 23.95 | .38 | 12.93 |
| Sample Co., J. S.... | 506-508 Market Street, Knoxville, Tenn. | Mail (sample)... | 66.38 | 22.00 | 1.62 | 10.00 |
| Do..... | do..... | Purchase (bulk)... | 71.65 | 16.88 | .38 | 11.09 |
| Sonderegger Nurseries and Seed House. | Beatrice, Nebr..... | Mail (sample)... | 58.82 | 21.44 | 3.70 | 16.04 |
| Do..... | do..... | Purchase (bulk)... | 58.54 | 22.22 | 3.83 | 15.41 |
| Springfield Seed Co. | Springfield, Mo..... | do..... | 63.19 | 12.09 | 5.14 | 19.58 |
| Stewart, S. B..... | 119 North Sixteenth Street, Omaha, Nebr. | Mail (sample)... | 60.32 | 14.60 | 9.14 | 15.94 |
| Do..... | do..... | Purchase (bulk)... | 74.84 | 9.69 | 2.33 | 13.14 |
| Stocklin & Herrstein. | Chillicothe, Ohio.... | do..... | 75.24 | 7.97 | 2.37 | 14.42 |
| Waggoner & Bro., C. C. | 217 Second Avenue N., Nashville, Tenn. | Mail (sample)... | 70.34 | 11.12 | 3.88 | 14.66 |
| Do..... | do..... | Purchase (bulk)... | 70.91 | 17.46 | .71 | 10.92 |

The Bureau of Plant Industry of the United States Department of Agriculture will continue to examine and report promptly as to the presence of adulterants and dodder in any sample of seed submitted for that purpose. According to the location of the sender, these samples may be submitted to the seed-testing laboratory at Washington, D. C., or to any of the following laboratories maintained through the cooperation of this department: Branch seed-testing laboratory, agricultural experiment station, Columbia, Mo.; branch seed-testing laboratory, agricultural experiment station, College Station, Tex.; branch seed-testing laboratory, Oregon Agricultural College, Corvallis, Oreg.; branch seed-testing laboratory, Purdue University, La Fayette, Ind.; branch seed-testing laboratory, California Department of Agriculture, Sacramento, Calif.

Approved:

HENRY C. WALLACE,
Secretary of Agriculture,

WASHINGTON, D.C., April 4, 1923.

ADDITIONAL COPIES

OF THIS PUBLICATION MAY BE PROCURED FROM
THE SUPERINTENDENT OF DOCUMENTS
GOVERNMENT PRINTING OFFICE
WASHINGTON, D. C.

AT

5 CENTS PER COPY

PURCHASER AGREES NOT TO RESELL OR DISTRIBUTE THIS
COPY FOR PROFIT.—PUB. RES. 57, APPROVED MAY 11, 1932



